## V. P. & R. P. T. P. Science College B.Sc. (Fifth Semester) Saturday 5<sup>TH</sup>October, 2013 Subject code: US05CICH05 Industrial Chemistry

Time: 03:30 am to 05:00 pm

Total Marks: 30

Q-1	9			(06)
	1	In early stage of filtration, the rate of filtr (a) High	(c) low	
	П	(b) Medium Addition of filter aid to the slurry before fi		of cake
	Common Co	<ul><li>(a) Increase the porosity of cake</li><li>(b) Increase the mass of cake</li><li>The settling rate of a particle depends up</li></ul>	(d) for high yield.	of cake
	888	(a) Size (b) Concentration of solid	(c) density (d) all of these	
	IV	The material when placed in a magnetic field are repelled is called		
		<ul><li>(a) Diamagnetic</li><li>(b) ortho magnetic</li></ul>	<ul><li>(c) paramagnetic</li><li>(d) none of these</li></ul>	R. Science
	V Paddle impeller consists of blades.			LIBRARY
		(a) One	(c) two	1
	VI	(b) Three (d) more than four Propeller impeller consists of blades		1. N. N999
	• •	(a) One	(c) two	
		(b) Three	(d) more than four	
Q-2	Answer any three of the following:			(06)
	Contract	Explain constant rate filtration and constant pressure filtration.		
	COMMON COMPRISACION COMMON COMPRISACI	Define filtration.		
	IV	What is sedimentation? Explain terminal & hinder settling velocity		
	V	Sketch the type of impellers.	Lee	
	VI	State various types of mixing.		
Q-3		Write note on plate & frame filters.		(06)
0.3		NA/Cha Alaa aanaa laa ahaa ahaa ahaa ahaa ahaa a	OR	(00)
Q-3		Write the construction and working of rot	ary drum filter.	(06)
Q-4		Write note on double cone classifier	OR	(06)
Q-4		Write note on hydraulic jig.	OK	(06)
		vinte field of Hydradile jig.		(00)
Q-5		Discuss the general construction and mixing operation for ribbon blender  OR  (06)		
Q-5		Discuss giving details the various design	s of impellers	(06)

ALL THE BEST